	Application No.	Applicant(s)	
Notice of Allowability	09/619,435	HAGIHARA ET AL.	
	Examiner	Art Unit	,
	Nhan T. Tran	2615	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>amendment filed 3/31</u>	<u> 1/2005</u> .		
2. The allowed claim(s) is/are 21,22,24-26,28,40-43,45 and 8	<u>0-84</u> .		
3. $\boxtimes$ The drawings filed on <u>19 July 2000</u> are accepted by the Ex	raminer.		
4.	been received.  been received in Application No cuments have been received in this rec	national stage applicational stage applicational stage application of the front (not the d).	quirements NOTICE OF
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	(PTO-413), enent/Comment	owance in <b>e</b> i

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## **DETAILED ACTION**

# Response to Arguments

1. Applicant's arguments, see amendment, filed 3/31/2005, with respect to claims 80-84 have been fully considered and are persuasive. The previous rejection has been withdrawn.

## Election/Restrictions

2. This application is in condition for allowance except for the presence of claims 1-20, 23, 27, 29-39, 44 & 46-79 non-elected without traverse (see Applicant's remarks filed 6/21/2004). Accordingly, claims 1-20, 23, 27, 29-39, 44 & 46-79 have been cancelled.

## Allowable Subject Matter

3. Claims 21, 22, 24-26, 28, 40-43, 45, 80-84 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding independent claim 21, the prior art of record fails to teach or fairly suggest the combination of all limitations required in claim 21 that includes "...a second switch connected between the first electrode and control electrode of the first transistor; and a controller that makes the individual pixels perform image sensing by turning on the first and second switches and that detects variations in sensitivity of the individual pixels by turning off the first and

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second switches and varying a voltage fed to the control electrode and second electrode of the first transistor."

Regarding claims 22, 24-26 and 28, these claims are dependent of claim 21.

Regarding independent claim 40, the prior art of record also fails to teach or fairly suggest the combination of all limitations required in claim 40 that includes "...a fourth MOS transistor having a first electrode connected to the first electrode of the second MOS transistor, a second electrode connected to the gate electrode of the second MOS transistor, and a gate electrode; and a fifth MOS transistor having a first electrode connected to the gate electrode of the second MOS transistor, a second electrode to which a direct-current voltage is applied, and a gate electrode; and a controller that makes the individual pixels perform image sensing by turning on the first and fourth MOS transistors and turning off the fifth MOS transistor so that the second MOS transistor operates in a subthreshold region below a threshold voltage thereof and that detects variations in sensitivity of the individual pixels due to variations in the threshold voltage of the second MOS transistors by turning off the first and fourth MOS transistors and turning on the fifth MOS transistor and then varying a voltage fed to the second electrode of the second MOS transistor."

Regarding claims 41-43 and 45, these claims are dependent of claim 40.

Regarding claim 80, the prior art of record also fails to teach or fairly suggest the combination of all limitations required in claim 80 that includes "...a controller that makes the individual pixels perform image sensing by turning on the first switching element and feeding a first voltage to the second electrode of the first transistor so that the first transistor operates in a subthreshold region and that turns off the first switching element for resetting the individual

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pixels, said controller temporarily feeding a second voltage to the second electrode of the first transistor during the first switching element is turned off, said second voltage being different from the first voltage so that the individual pixels are brought into a substantially identical initial state."

Regarding claims 81-84, these claims are dependent of claim 80.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nhan T. Tran whose telephone number is (571) 272-7371. The examiner can normally be reached on Monday - Thursday, 8:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on (571) 272-7950. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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